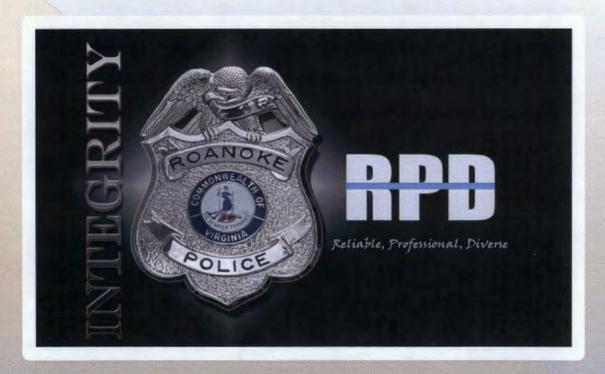
E-Summons Workflow Study & Implementation



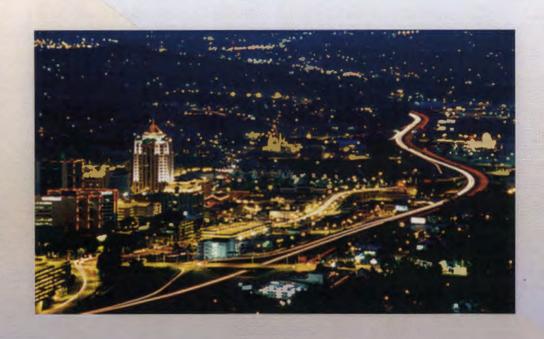
Team 8: Feng Jiao, Cassie Monteverde, Colin Wall, Senxuan Wang

Client: The City of Roanoke, Virginia

Contact: Lt. Jeffrey Newman

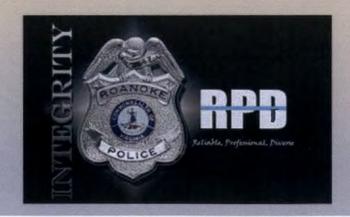
Advisor: Dr. Joel Nachlas

The Roanoke Police Department employs 248 officers and serves approximately 98,000 residents.



 23,000 summons issued annually RPD currently uses a traffic summons process that requires handwritten completion of citations, and manual electronic data entry by both RPD and city court.

- Redundant Steps
- Open to inconsistencies & error



Implementation of an electronic ticketing system could save the RPD 3,000 work hours for redistribution to other tasks, a value of \$51-82K per year

```
Base Pay Top Pay
Police Officers $32,461.21 - $51,937.93
RPD Clerks Office $18,923.27 - $30,277.72
```

Annual Savings Range: \$51,384.47 - \$82,215.65

- Elimination of citation data entry
- Decreased error rates
- Increased employee and system efficiency

To achieve the desired E-Summons system, a Request for Information document (RFI) was formulated to solicit product information from potential vendors.

The RFI includes:

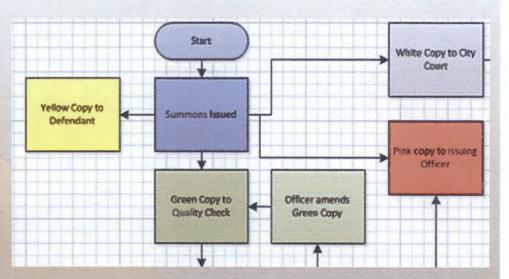
- Current state of system
- Criteria for the desired system
- Backend requirements
- Installation
- Maintenance

Scheduled to be published Summer 2015

To complete the RFI, benchmarking and a current state analysis were performed.

Current State Analysis:

- Process Map
- Stakeholder concerns



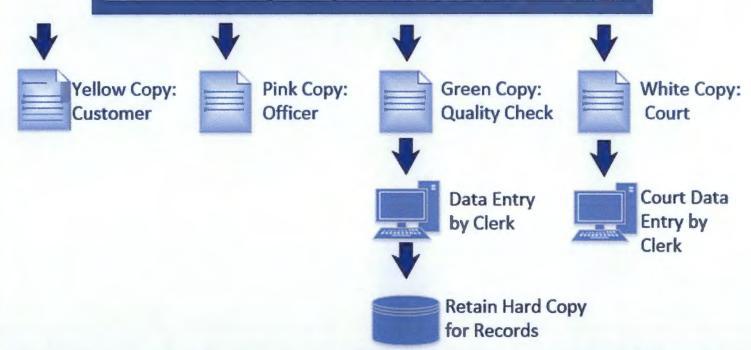
Benchmarking Report:

- Salem PD case study
- Market and vendor research

Current Summon System



- Manually enter drivers license & registration information
- Manually complete summons (4 carbon copies)
- Time consuming and high error rate



E-Summons System



- Scan drivers license & registration information
- Summons printed in cruiser (2 copies)
- Increased efficiency and decreased error rate









Offender Copy



Court Copy



Digital Information Sent to Database

RPD was provided with a Vendor Evaluation Excel spreadsheet to rate and evaluate vendor proposals.

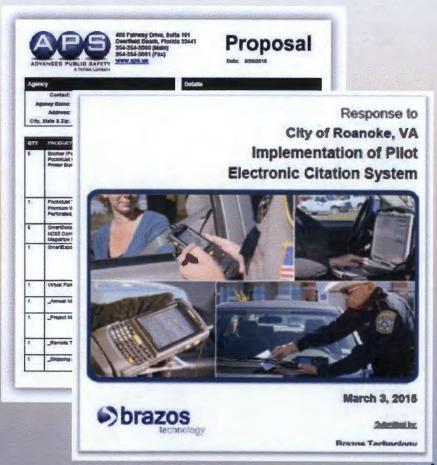
Weight per Category (%)	VENDOR REQUIRMENTS					
10.0%	Employee Training (Time, cost, effort needed)					
5.0%	Facility and technology (Usability, stability, speed)					
20.0%	Price/cost (purchase cost, maintenance cost)					
5.0%	Product quality (Overall Quality of Parts, Products, Materials, Software adaptation to current RMS)					
5.0%	Responsiveness to customer needs					
10.0%	Competitiveness of Price					
10.0%	Quality of Service Provided					
5.0%	Competitiveness of Terms and Conditions					
5.0%	Credit Rating					
5.0%	Overall Financial Condition					
5.0%	Reputation of Company					
5.0%	Quality of Design Compared to Specifications					
5.0%	Technical Support Staff's Level of Expertise					
5.0%	Warranty					

- Based upon valued criteria
- Criteria is weighted

Planned implementation of the new electronic summons system will kick-off with a 6 month Pilot Launch Program.

5 police cruisers outfitted

- Citation software
- Tablets
- Printers
- Scanning device



A four stage roll-out plan will complete implementation of the new electronic summons system and at completion will save the RPD approx \$51-82,000 per year or 3,000 work hours.

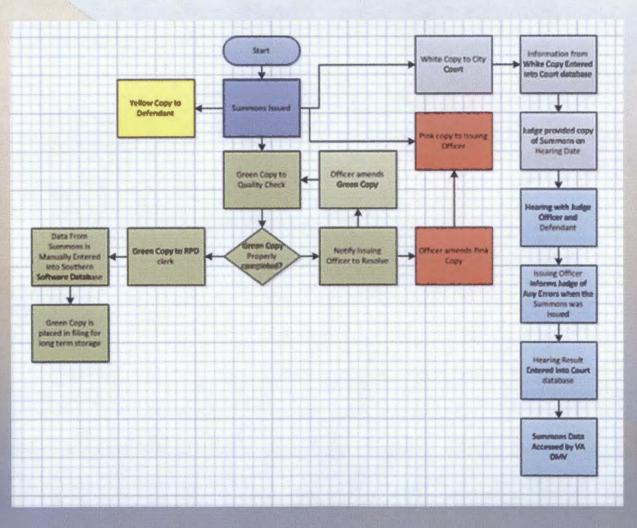


70 Police Cruisers

Chevy Impala, Dodge Charger & Ford Interceptor

Appendix

RPD Summons Current State Process Map



Appendix

Annual Savings Range Summary

Approx. Summons Issued Per Year:		23000					
	TIME ELIMINATED PER SUMMONS (min)	TIME ELIMINATED ANNUALLY (hr)	TIME ELIMINATED WEEKLY (hr)	BASE PAY (hr)	TOP PAY (hr)	Time Saved BASE PAY (wk)	Time Saved TOP PAY (wk)
RPD Clerks Office	5	1916.67	36.86	\$16.94	\$27.10	\$624.25	\$998.81
Police Officers	2	766.67	14.74	\$24.68	\$39.49	\$363.91	\$582.26
				Police officers RPD Clerks office Annually:		\$32,461.21	\$51,937.93
						\$18,923.27	\$30,277.72
						\$51,384.47	\$82,215.65

The stated data points are from March 2015